

FORM PTO-1449

U.S. Dept. of Commerce
Patent and Trademark Office

Atty Docket No.

P1732R1

Serial No.

10/080,866

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

Applicant

Paegle et al.

Filing Date

22 Feb 2002

Group

1649

1636

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

82

Loizos and Darst., "Mapping Interactions of Escherichia coli GreB with RNA Polymerase and Ternary Elongation Complexes." J. Bio. Chem. 274(33):23378-23386 (Aug 1999)

83

Sektas et al., "Expression Plasmid with a Very Tight Two-Step Control: Int/att-Mediated Gene Inversion with Respect to the Stationary Promoter." Gene. 267:213-220 (Apr 2001)

84

Shatzman and Rosenberg., "The pAS Vector System and Its Application to Heterologous Gene Expression in Escherichia coli." Hepatology. (Suppl. 1) 7(1):30S-35S (Jan 1987)

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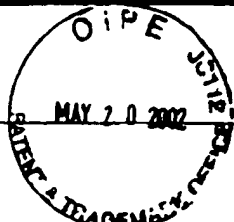
Examiner

PATRICIA KIGGINS

Date Considered

3/14/05

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FORM PTO-1449

U.S. Dept. of Commerce
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P173281

Serial No.

10 090007

LIST OF DISCLOSURES CITED BY APPLICANT

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Applicant

Paeple et al.

Filing Date

11 Feb 2002

Group

1636

U.S. PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date
PSR	1	4,578,355	25.03.86				
	2	5,142,217	10.11.93				
	3	5,256,946	26.10.93				
	4	5,394,846	11.10.94				
	5	5,374,832	20.12.94				
	6	5,401,658	21.01.95				
	7	5,619,715	08.04.97				
	8	5,834,144	10.11.98				

FOREIGN PATENT DOCUMENTS

Examiner Initials		Document Number	Date	Country	Class	Subclass	Translation Yes	No
PSR	9	131,843	24.01.85	EP				
	10	314,124	01.05.89	EP				
	11	447,676	22.01.92	EP				
	12	491,407	10.11.94	EP				
	13	713,997	12.08.96	EP				
	14	818,525	29.04.98	EP				
	15	893,502	27.01.99	EP				
	16	9,059,399	24.03.97	JP (ENGLISH ABSTRACT ONLY)				
	17	WO 85/12424	20.06.85	PCT				
	18	WO 85 04414	10.10.85	PCT				
	19	WO 88 06628	07.09.88	PCT				
	20	WO 89 03856	25.05.89	PCT				

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

PSR	21	Beck et al., "Efficient Production of Active Human Manganese Superoxide Dismutase in Escherichia coli," <u>Biotechnology</u> , 6:930-935 (Aug 1988)
	22	Bielawski et al., "Construction of a DNA-Polymerase I Overproducing Plasmid and Isolation of the Enzyme," <u>Acta Biochim. Pol.</u> 34(1):29-34 (1987)
	23	Borukhov and Goldfarb., "Purification and Assay of Escherichia coli Transcript Cleavage Factors GreA and GreB," <u>Meth. Enzymol.</u> 274:315-326 (1996)
	24	Borukhov et al., "GreA Protein: A Transcription Elongation Factor From Escherichia coli," <u>Proc. Natl. Acad. Sci. USA</u> 89:8899-8902 (Oct 1992)
	25	Borukhov et al., "Transcript Cleavage Factors from E. coli," <u>Cell</u> 72:459-466 (Feb 1993)
	26	Chaman and Spiridon., "The Gene for a Small Stable RNA (ssa RNA) of Escherichia coli," <u>Molecular Microbiology</u> , 1(11):1481-1485 (1989)
	27	Durst et al., "Crystallization of GreA, A Transcript Cleavage Factor From Escherichia coli," <u>J. Mol. Biol.</u> 242:583-595 (1994)

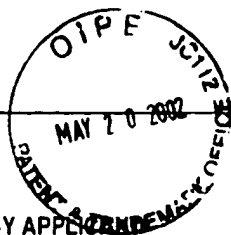
Examiner

PATRICIA RIGGINS

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FORM PTO-1449

U.S. Dept. of Commerce
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P174341

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16,090,000

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

Applicant

Pacelle et al.

Filing Date

22 Feb 2001

Group

1636

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

28	Das., "Transcription Antitermination by Lambda N Gene Product in a Well-Defined Plasmid System." Fed. Proc. (72nd Annual Mtg. Amer. Soc. Bio. Chem. Abstract 1191) 43(6):1764 (May 21 June 4 1981)
29	Eric et al., "Multiple RNA Polymerase Conformations and GreA Control of the Fidelity of Transcription." Science, 161:867-873 (1993)
30	Feng et al., "GreA Induced Transcript Cleavage in Transcription Complexes Containing Escherichia coli RNA Polymerase Is Controlled by Multiple Factors, Including Nascent Transcript Location and Structure." J. Bio. Chem. 269:22282-22294 (1994)
31	Feng et al., "Interactions Between RNA Polymerase and Transcript Affect GreA And GreB Mediated Reverse Translocation." J. Biol. Biochem. Suppl. (Abstract 1408)120:98 (1994)
32	Franklin and Bennett., "The N Protein of Bacteriophage Lambda, Defined by Its DNA Sequence, is Highly Basic." Gene, 8:107-119 (1979)
33	Franklin., "N Transcription Antitermination Proteins of Bacteriophages λ , ϕ 21 and ϕ 22." J. Mol. Biol. 181:85-91 (1985)
34	Franklin., "Clustered Arginine Residues of Bacteriophage λ N Protein are Essential to Antitermination of Transcription, but Their Locals Cannot Compensate for boxB Loop Defects." J. Mol. Biol. 231:343-360 (1993)
35	Franklin., "Conservation of Genome Form but not Sequence in the Transcription Antitermination Determinants of Bacteriophages λ , ϕ 21 and ϕ 22." J. Mol. Biol. 181:75-84 (1985)
36	Friedman and Olson., "Evidence that a Nucleotide Sequence, "loxA," is Involved in the Action of the NusA Protein." Cell, 34:143-149 (1981)
37	Friedman et al., "Transcription-Dependent Competition for a Host Factor: The Function and Optimal Sequence of the Phage λ XA Transcription Antitermination Signal." Genes Dev., 4:2210-2222 (1990)
38	Garcia et al., "The E. coli dnaY Gene Encodes an Arginine Transfer RNA." Cell, 45:453-459 (1986)
39	Gatenby and Castleton., "Amplification of Malze Ribulose Biphosphate Carboxylase Large Subunit Synthesis in E. coli by Transcriptional Fusion with the Lambda N Operon." Mol. Gen. Genet. 185:424-429 (1982)
40	Greenblatt et al., "Transcriptional Antitermination." Nature, 344:431-436 (Oct 1993)
41	Gr et al., "Nascent RNA Cleavage by Arrested RNA Polymerase II Does Not Require Upstream Translocation of the Elongation Complex on DNA." J. Bio. Chem. 268:25624-25634 (1993)
42	Guo and Price., "Mechanism of Nus II-Mediated Pause Suppression by Drosophila RNA Polymerase II." J. Bio. Chem. 268:18760-18771 (1993)
43	Horiuchi et al., "Effect of pH on Expression and Stabilization of β -Galactosidase by Recombinant E. coli with a Thermally Inducible Expression System." Biotechnology Lett. 16:113-118 (1994)
44	Hsu et al., "Escherichia coli Transcript Cleavage Factors GreA and GreB Stimulate Promoter Escape and Gene Expression In Vivo and In Vitro." Proc. Natl. Acad. Sci. USA 92:11577-11582 (1995)
45	Hwang et al., "High Level Expression of Porcine Growth Hormone in Escherichia coli From an Expression Vector Containing Bacteriophage λ P _L and N Gene Untranslated Region." Biochem. & Biophys. Res. Comm. 174:711-717 (1990)
46	Jordan and Luse., "Factor-Stimulated RNA Polymerase II Transcribes at Physiological Elongation Rates on Naked DNA but Very Poorly on Chromatin Templates." J. Bio. Chem. 267(19):13647-13655 (1992)
47	Jordan and Luse., "E11 Facilitated Transcript Cleavage in RNA Polymerase II Complexes Stalled Early After Initiation Occurs in Primarily Dinucleotide Increments." J. Bio. Chem. 268(17):12844-12851 (1993)

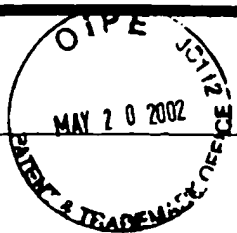
Examiner

PATRICK RIGGS

Date Considered

3/14/05

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FORM PTO-1449 LIST OF DISCLOSURES CITED BY APPLICANT (Use several sheets if necessary)	U.S. Dept. of Commerce Patent and Trademark Office	Atty Docket No. P17881	Serial No. 10 282466
		Applicant Paegle et al.	
		Filing Date 12 Feb 2002	Group 1636

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

48	Liban and Luse., "The Increment of SII-Facilitated Transcript Cleavage Varies Dramatically Between Elongation Competent and Incompetent RNA Polymerase II Ternary Complexes." <i>J. Bio. Chem.</i> 268(17):12874-12885 (Jun 1993)
49	Liban and Luse., "The RNA Polymerase II Ternary Complex Cleaves the Nascent Transcript in a 3' to 5' Direction in the Presence of Elongation Factor SII." <i>Genes & Development</i> 6:1342-1356 (1992)
50	Kanazawa et al., "Optimization of β -Galactosidase Production by Recombinant <i>E. coli</i> with "Thermo Inducible Expression System." <i>IFAC Symp. Ser.</i> 18:255-258 (1992)
51	Passavetis And Geldusche., "RNA Polymerase Marching Backward." <i>Science</i> , 259:944-945 (Feb 1992)
52	Reiler et al., "Role of a Peptide Tagging System in Degradation of Proteins Synthesized from Damaged Messenger RNA." <i>Science</i> , 271:998-999 (Feb 1996)
53	Kouligh et al., "Distinct Function on N and C Terminal Domains of GreA, and Escherichia coli Transcript Cleavage Factor." <i>J. Mol. Biol.</i> 276:379-389 (1998)
54	Kouligh et al., "Domain Organization of Escherichia coli Transcript Cleavage Factors GreA and GreB." <i>J. Bio. Chem.</i> 272(11) 7201-7210 (Mar 1997)
55	Roydan et al., "Cloning and Expression of the HTLV III Virus Surface Protein Gene in <i>E. coli</i> ." <i>Vogr. Virusol. (English Abstract Included)</i> 31:485-489 (1986)
56	Lazinski et al., "Sequence Specific Recognition of RNA Hairpins by Bacteriophage Antiterminators Requires a Conserved Arginine Rich Motif." <i>Cell</i> , 59:207-215 (Oct 1989)
57	Lee et al., "GreA Induced Transcript Cleavage Is Accompanied by Reverse Translocation to a Different Transcription Complex Conformation." <i>J. Bio. Chem.</i> 269(35):22293-22301 (1994)
58	Li et al., "Antitermination of <i>E. coli</i> rRNA Transcription Is Caused by a Control Region Segment Containing Lambda nut-Like Sequences." <i>Cell</i> , 38:851-860 (Oct 1984)
59	Li et al., "Identification of greA Encoding a Transcriptional Elongation Factor as a Member of the carA-ori-carB-greA Operon in Pseudomonas aeruginosa PAO1." <i>J. Bacteriology</i> , 179:3043-3046 (1997)
60	Makrides., "Strategies for Achieving High-Level Expression of Genes in Escherichia coli." <i>Microbiol. Rev.</i> 60(3):512-538 (1996)
61	Marks and Wood., "Nucleotide Sequence of the Rickettsia prowasekii greA Homolog." <i>Nucleic Acids Research</i> , 20(14):3785 (1992)
62	Martin Gallardo et al., "Expression of the G Glycoprotein Gene of Human Respiratory Syncytial Virus in Salmonella Typhimurium." <i>J. Gen. Virol.</i> 74:453-455 (1993)
63	Perters et al., "Tight Transcriptional Control Mechanism Ensures Stable High Level Expression from T7 Promoter-Based Expression Plasmids." <i>Biotechnology</i> , 13:175-179 (Feb 1995)
64	Hogridge et al., "Involvement of boxA Nucleotides in the Formation of a Stable Ribonucleoprotein Complex Containing the Bacteriophage λ N Protein." <i>J. Bio. Chem.</i> 273(7):4143-4148 (1998)
65	Mote and Reines., "Recognition of a Human Arrest Site Is Conserved Between RNA Polymerase II and Prokaryotic RNA Polymerases." <i>J. Bio. Chem.</i> 273(27):16843-16852 (1998)
66	Olsen et al., "Analysis of nutB: A Region of Phage Lambda Required for Antitermination of Transcription." <i>Cell</i> , 31:61-70 (Nov 1981)
67	Orlova et al., "Intrinsic Transcript Cleavage Activity of RNA Polymerase." <i>Proc. Natl. Acad. Sci. USA</i> 91:4586-4590 (May 1994)

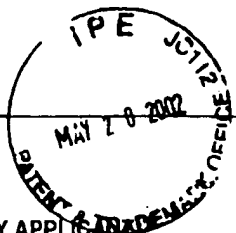
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PATRICK RIGGINS

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3/14/05

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FORM PTO-1449

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Patent and Trademark Office

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P17380

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10-080766

LIST OF DISCLOSURES CITED BY APPLICANT

(Use several sheets if necessary)

Applicant

Paele et al.

Filing Date

23 Feb 1990

Group

1636

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, etc.)

68	Patterson et al., "Bacteriophage Lambda N Dependent Transcription Antitermination: Competition for an RNA Site May Regulate Antitermination." <u>J. Mol. Biol.</u> 231:17-228 (1994)
69	Polyakov et al., "Visualization of the Binding Site for the Transcript Cleavage Factor GreB on Escherichia coli RNA Polymerase." <u>J. Mol. Biol.</u> 291:465-473 (1998)
70	Sees et al., "Bacteriophage λ N Protein Alone Can Induce Transcription Antitermination In Vitro." <u>Proc. Natl. Acad. Sci. USA</u> 93:342-346 (Jan 1996)
71	Reines et al., "Transcription Elongation Factor PII (TFIIIF) Enables RNA Polymerase II to Elongate Through a Block to Transcription in a Human Gene In Vitro." <u>J. Biol. Chem.</u> 264(19):11799-11809 (Jun 1989)
72	Reines., "Elongation Factor Dependent Transcript Shortening by Template Engaged RNA Polymerase II." <u>J. Biol. Chem.</u> 267(6):1795-1800 (Feb 1992)
73	Schauer et al., "A N Antitermination System: Functional Analysis of Phage Interactions with the Host NusA Protein." <u>J. Mol. Biol.</u> 194:679-697 (1987)
74	Sluder et al., "Properties of a Drosophila RNA Polymerase II Elongation Factor." <u>J. Biol. Chem.</u> 264(15):8961-8969 (May 1989)
75	Stanssens et al., "Inefficient Translation Initiation Causes Premature Transcription Termination in the lacZ Gene." <u>Cell</u> 44:711-718 (Mar 1984)
76	Stebbins et al., "Crystal Structure of the GreA Transcript Cleavage Factor From Escherichia coli." <u>Nature</u> 375(6210):641 (Feb 1995)
77	Surratt et al., "Spontaneous Cleavage of RNA in Ternary Complexes of Escherichia coli RNA Polymerase and Its Significance for the Mechanism of Transcription." <u>Proc. Natl. Acad. Sci. USA</u> 88:799-7997 (Sep 1991)
78	Tu et al., "C Terminal Extension of Truncated Recombinant Proteins in Escherichia coli with a 13aa RNA Decapeptide." <u>J. Biol. Chem.</u> 270(16):9332-9336 (Apr 1995)
79	Rang and Hawley., "Identification of a 3' to 5' Exonuclease Activity Associated with Human RNA Polymerase II." <u>Proc. Natl. Acad. Sci. USA</u> 90:843-847 (Feb 1993)
80	Weisberg and Gottesman., "Processive Antitermination." <u>J. Bacteriol.</u> 181(2):359-367 (Jan 1999)
81	Zhukovskaya et al., "Inactive OF Methylguanine-DNA Methyltransferase In Human Cells." <u>Nucleic Acids Research</u> 20(22):6081-6090 (1992)

Examiner

PATRICIA RUGGIER

Date Considered

3/14/08

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